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APPLICATION NO FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

08:832,443 04/03 1997 STEPHEN D. WOLPE

1331-222C#M#

1001

7590

03-01/2002

NIXON & VANDERHYE 1100 NORTH GLEBE ROAD 8TH FLOOR ARLINGTON, VA 222014714 EXAMINER

SAUNDERS, DAVID A

ART UNIT PAPER NUMBER

1644

DATE MAILED: 03/01/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 732 443	Applicant(s)	-PE e	tal	
	Examiner / SAV~2	> ERS	Group Art Unit		
-The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address-					
Period for Reply	2				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIREMONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
<ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.15 from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply</li> <li>If NO period for reply is specified above, such period shall, by default, ex</li> <li>Failure to reply within the set or extended period for reply will, by statute,</li> </ul>	within the statutory minim pire SIX (6) MONTHS from	um of thirty (30) on the mailing date	days will be consider of this communicati	ed timely.	
Status	,	. [ - 1	•		
Z Responsive to communication(s) filed on/	0/ 10/	12 01			
This action is FINAL.	. , .	•			
Since this application is in condition for allowance except fo accordance with the practice under Ex parte Quayle, 1935			the merits is clo	sed in	
Disposition of Claims					
Letaim(s) 47-52 91-99		is/are p	ending in the app	lication.	
Of the above claim(s)			is/are withdrawn from consideration.		
to (laim(s) 5)-52			is/are allowed		
Velaim(s) 47-50 95-97			is/are rejected		
Letaim(s) 91-94/98-99			is/are objected to.		
· · · · · · · · · · · · · · · · · · ·			are subject to restriction or election		
Application Papers		require	ment.		
See the attached Notice of Draftsperson's Patent Drawing F	Review, PTO-948.				
The proposed drawing correction, filed on isapproved disapproved.					
The drawing(s) filed on is/are objected to by the Examiner.					
_ The specification is objected to by the Examiner.					
The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 (a)-(d)					
Acknowledgment is made of a claim for foreign priority under All Some* None of the CERTIFIED copies of the received.	- , ,	` '			
<ul><li>received in Application No. (Series Code/Serial Number)</li><li>received in this national stage application from the Intern</li></ul>			·		
*Certified copies not received:			•		
Attachment(s)					
Information Disclosure Statement(s), PTO-1449, Paper No(	s) Ir	nterview Summ	nary, PTO-413		
Notice of Reference(s) Cited, PTO-892		Notice of Informal Patent Application, PTO-152			
Notice of Draftsperson's Patent Drawing Review, PTO-948		Other	32		
Office Action Summary					

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.

Art Unit: 1644

The claims pending and under examination are 47-52 and 91-99.

in a prior Office action. The text of those sections of Title 35, U.S. Code not included in this action can be found

Applicant's response of 10/3/01 has overcome the previously stated 102, 103 and obviousness type double patenting rejection of Paper 27.

Claims 47, 49-50, 95 and 97 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 47, 49, 95 and 97 recitation of the peptide designated as SEQ ID NO: 4 is unclear. The same peptide has been designated as SEQ ID NO: 26 at page 82.

It is unclear which SEQ ID NO: is correct. Applicant must correct specification and, if necessary for the sake of consistency, provide a new Paper and electrically readable versions of the Sequence Listing.

Claims 47-48 and 95-96 are rejected under 35 U.S.C. 102(b) or (e) as being anticipated by Rosenthal et al. (WO 95/24213 or U.S. 5,631,219).

It is noted that applicant's recitation in these claims of alpha or beta chains is properly considered to encompass homologous and heterologous combinations of these in the form of dimers and multimers (paragraph spanning pages 20-21). Also note that the claim scope is open by viture of reciting "comprising" in the preamble.

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Rosenthal et al. disclose tetramers comprised of four alpha or four beta globulin chain subunits of hemoglobin and pseudotetramers.; They also disclose various heterologous tetramers of alpha and beta chains. See col. 12, line 58 - col. 13, line 35. These constructs are taught as having a use in the "stimulation of hematopoiesis", which term encompasses the expansion of progenitor cells including pluripotent stem cells. See col. 6, line 64 - col. 7, line 26, especially at col. 7, lines 14-15. Thus Rosenthal et al. teach applicant's invention.

It is also noted that dosages taught at col. 17, lines 52-64 include higher level dosages that correspond to those taught by applicant as stem cell proliferating dosages at page 35. Thus Rosenthal et al's, taught dosages would inherently accomplish what applicant is claiming.

The statement of anticipation is considered proper absent 1) an explanation of why the examiner's interpretation of the claims and/or the reference is improper and/or 2) an introduction of claim language that negates the embodiments recited by applicant at page 21, lines 1-3.

Note that the corresponding WO publication of Rosenthal et al. is considered as constituting a 102 (b) reference, since applicant's parent application 08/627,173 (Pat. 5,861,483) does not provide descriptive support for any claims reciting "stem cell proliferating amount".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Saunders, Ph.D., whose telephone number is (703) 308-3976. The examiner can normally be reached on M-F from 8:15 a.m. to 4:45 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan, can be reached on (703) 308-3973. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4242.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

D. Saunders:jmr

Feb. 20, 2002

Feb. 21, 2002

DAVID SAUNDERS
PRIMARY EXAMINER
ART UNIT 182/644